5(2) AUTHORS:

Babko, A. K., Get'man, T. Yo.

307/75-1-7-16/31

TITLE:

Chloride Complexes of Pentavalent Tolybdenum (Khloridayye

kompleksy pystivalentnogo molibdens)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 1, Ur 3,

pp 585-590 (USSR)

ABSTRACT:

The complex compounds of pentavalent molybdenum in hydrochloric acid solutions were investigated by spectrophotometric determinations in the altreviolet and visible range A reddish-brown complex with the absorption maximum at 295 and 395 mu forms in < 2 n hydrochloric acid concentration. With the increase in the concentration to 4-5 n a greenish-brown complex forms with the absorption maximum at 450 and 730 mu. At a further increase in the hydrochloric acid concentration a greenish-blue complex forms with the absorption maximum at 240 and 310 mu. The absorption spectra of molybdenum (V) were recorded at different hydrochloric acid concentrations and are given by figures 1, 2, and 3. For the explanation of the differences between the absorption spectra and for the measurement of the optical lensity at

Card 1/4

 $\lambda = 450$  m $\mu$  experiments were carried out in series with

Chloride Complexes of Pentavalent Molybdenum

307/78-4-3-16/34

molybdenum (V) solutions at constant concentration of hydrochloric acid (1.5 n) and variable concentration of lithium chloride, as shown in figure 4. From these experiments it follows that the complex formation is due to the variation of the oxygen content in the coordination sphere. At constant concentration of the hydrogen ions in the case of an increase in the chlorine ionic concentration the second form of the complex is formed and in the case of a further increase in the [LiCl] -content to ~5.5 n the complex passes over into the third form. This transition of the complex is explained by the introduction of the chlorine ion anto the coordination sphere. For the purpose of determining the composition of the chloride complex of molybdenum (Y) some isomolar series of  $\operatorname{Mo}^{\boldsymbol{V}}\text{-LiCl}$  were investigated in the presence of perchloric acid. The experiments confirm that the absorption spectra run parallel, measured in the range of the wave length of 350-500 m $\mu$ ; they are also dependent on the acidity of the solution. For the second complex form MoOCl, the ratio  $\text{Mo}^{V}$  : Cl' = 1 : 3 was found. For the third form of the

Card 2/4

Chloride Complexes of Pentavalent Molybdenum

307/78-1-3-16/34

ASSOCIATION:

Institut obshchey i neorganicheskoy khimii Akademii nauk USSR

(Institute of General and Inorganic Chemistry of the Academy

of Sciences, UkrSSR)

SUBMITTED:

July 2, 1957

Card 4/4

5 (3) AUTRORS:

Babko, A. K., Get'man, T. Ye.

JNY/79-29-7-69/83

TITLE:

Investigation of the Reaction of Chromate With Bibhengl Carbazide

(Izucheniye reaktsii khromata s lifenilkarbazidom)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2416-2420 (TSSR)

ABSTRACT:

The formation of an intensely colored compound on the reaction of chromates with diphenyl carbaside (further designed as PC) is frequently used in the chemical analysis. Nevertheless, the chemism of this reaction has hitherto been vigorously discussed. Quite recently a number of new papers on this subject was published. Without dealing with the details of these papers, table 1 presents the principal data regarding methods and results obtained by various scientists. It can be seen from it that the data are contradictory. The investigations carried out by the authors (Ref 5) with respect to the reaction of the trivalent chromium with DCO in the presence of an acetate buffer solution gave the following results: the trivalent chromium reacts neither with diphenyl carbazide nor with diphenyl carbazone; the bivalent one does not react with diphenyl carbazone. The inaccurate data of a number of authors are explained by a sideprocess, i.e. by the formation of the above-mentioned compound

Card 1/3

Investigation of the Reaction of Chromate With Diphenyl Carbazide

UCT/79-29-7-69/83

in the reaction of acetic acid with diphenyl carbagone, irrespective of presence or absence of chromium. In the reaction of CrVI with diphenyl carbazide a complex compound of the trivalent chromium with the colored oxidation product of diphenyl carbazide is formed. The colored reaction product of Cr with diphenyl carbazide can be separated partially or nearly completely, according to the conditions, from chromium by extraction with isoamyl alcohol, in which connection the absorption spectrum of the solution of the colored compound does not vary. In the presence of complex-forming compounds the chromium combines with them without any loss of color of the solutions. In the presence of reduction agents added on reaction of  $\operatorname{Cr}^{\operatorname{VI}}$  with diphenyl carbazide no colored compound is formed. Some questions regarding the reaction mechanism of  $\operatorname{Cr}^{VI}$  with diphenyl carbazide were discussed. There are 2 tables and 8 references, 2 of which are Soviet.

Card 2/3

Investigation of the Reaction of Chromate With Diphenyl Carbazide

107/79-29-7-59/83

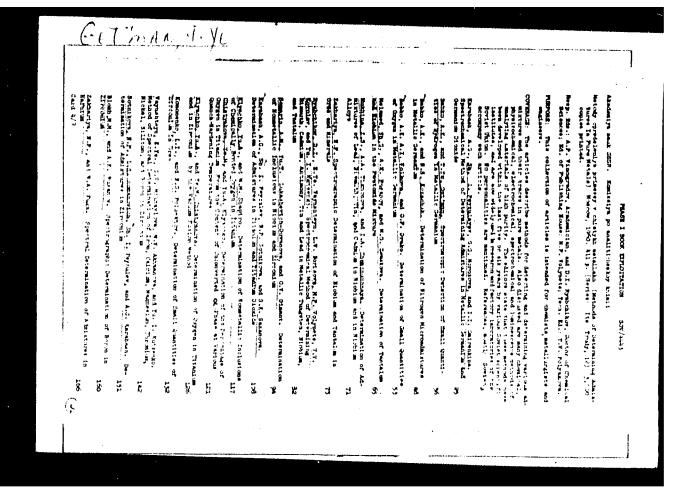
ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii nauk USSR (Institute of General and Inorganic Chemistry of the Academy of

Sciences of the Ukrainian SSR)

SUBMITTED:

Lay 29, 1958

Card 3/3



Spectroscopic determination of small amounts of hydrogen in metallic germanium. Trudy Kom. anal. khim. 12:36-47 '60. (MIRA 13:8)

(Germanium—Hydrogen content) (Hydrogen—Spectra)

\$/078/61/006/002/005/017 B017/B054

AUTHORS:

Babko, A. K., Volkova, A. I., Get'man, T. Ye.

TITLE:

Crystalline Salicylate Complex Compounds of Titanium

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1961, Vol. 6, No. 2,

Pp. 354 - 359

TEXT: The authors studied the composition and properties of salicylate and pyridine salicylate complexes of titanium separated from aqueous solutions in solid form. The solubility of titanium salicylate depends on the pH of the solution. Fig. 1 shows the solubility of titanium salicylate as dependent on the pH of the solution. The formation of titanium salicylate complexes from aqueous solutions proceeds stepwise. The investigation of the composition of the crystalline titanium salicylate complexes shows that the titanium salicylate ratio in these compounds in dependence on the pH of the solution is 1:1,1:2, and 1:3. The pyridine salicylate complexes of titanium were produced by adding pyridine to the aqueous titanium salicylate solution, a fine crystalline yellow powder being formed in the cold, in which the ratio of components Ti: Sal: Py = 1:3:1,

Crystalline Salicylate Complex Compounds of Titanium

\$/078/61/006/002/005/017 B017/B054

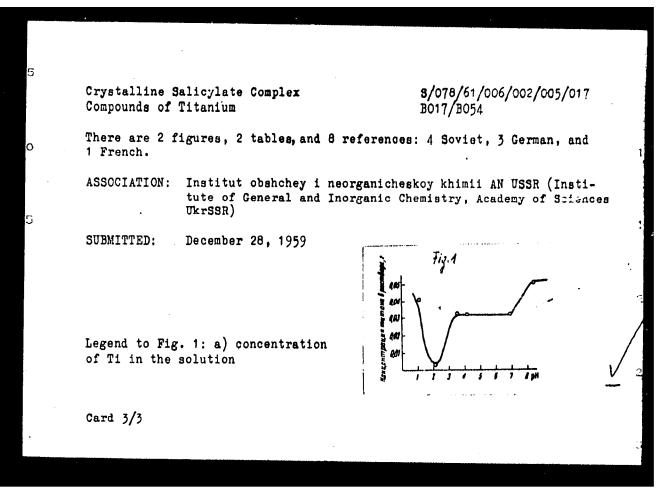
whereas from hot solutions a crystalline orange-colored precipitate is separated in which the ratio of components Ti: Sal: Py = 1: 3: 2. Titanium pyridine salicylates are extractable with chloroform. The following formulas were suggested for the structure of solid titanium salicylate complexes:

$$(NH_{4})H[TiO(<_{OC}^{O}C_{6}H_{4})_{2}]$$
 (1),  $(NH_{4})H[TiO(<_{OC}^{O}C_{6}H_{4})_{2}]$  (2),

$$NaH \left[ Ti \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right) c_{6}H_{4} \right)_{3} \right], \qquad (NH_{4})_{2} \left[ Ti \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right) c_{6}H_{4} \right)_{3} \right] \qquad (3),$$

$$PyH[TiO(<_{HOC}^{O} - c_{6}H_{4})_{3}] \quad (4), \text{ or } (PyH)_{2}[Ti(_{OC}^{O} > c_{6}H_{4})_{3}] \quad (5).$$

Card 2/3



BABKO, A.K.; VCLKOVA, A.I.; GET MAN, T.Ye.

Determination of the composition of strongly hydrolyzing cations. Zhur.neorg.khim. 6 no.5:1035-1041 My  $^{\circ}61$ .

(MIRA 14:4)

1. Institut obshchey i neorganicheskoy khimii AN USSR.

(Complex compounds)

ABRO, A.S. OET MAN, J. To.
Reaction of molybdate with dipher, cartarid diphenyliarbazone. Ukrakhimathur, 27 no.5 su (Mana M.11)
1. Institut obshchey i neorganicheskoy kbimin AM USSR. (Molybdenum compounds)

BABKO, A.K.; VOLKOVA, A.I.; GET'MAN, T.Ye.

Colored complexes of titanium with salicylate. Zhur.neorg.khim. 7 no.2:284-290 F 162. (MIRA 15:3)

1. Institut obshchey i neorganicheskoy khimii AN USSR. (Titanium compounds) (Salicylic acid)

BABKO, A.K.; WOLKOVA, A.I.; GET MAN, T.Ye.

Colorles: salicylate complexes of titanium. Ehur.meorg.khim. 7
no.9:2167-2172 S 462. (MIRA 18:9)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR. (Titanium compounds) (Salicylic acid)

BABKO, A.K., ukademik; Welkeva, A.I.; Timimah, T.Ye. [detiman, T.D.]

Formation of a protentary copiex to the system vector of v. Finceinesalicylate - prince. Dep. AN West no.er (C-ell to). (MIRA 10:9)

1. AN Wests? for backo).

BABKO, A.K.; VOLKOVA, A.I.; GET'MAN, T.Ye.; PAVLOVA, M.Kh.

Complex formation in the system vanadyl(4) - salicylate. Ukr.khim. zhur. 29 no.12:1235-1240 '63. (MIRA 17:2)

1. Institut obshchey i neorganicheskoy khimii AN Ukr3SR i Institut khimii Bolgarskoy Akademii nauk.

VOLKOVA, A.I.; GET'MAN, T.Ye.

Complex formation in the system vanadium (5) - salicylate. Ukr. khim. zhur. 29 no.12:1240-1246 '63. (MIRA 17:2)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

VOLKCVI, A.I., GET'MAN, T.Ye.

System vanedium (V) = salicylate = organic base. Lhur. deorg.

Khim. 9 no.5:1109-1116 My 164.

IMIHA 17:91

ACCESSION NR: AP4011979

S/0073/64/030/001/0102/0106

AUTHORS: Volkova, A.I.; Get'man, T.Ye.; Yemtsova, N.A.

TITLE: Determination of titanium in metallic aluminum in the form

of a ternary titanium-salicylate-quining complex

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 1, 1964, 102-106

TOPIC TAGS: metallic aluminum, ternary titanium salicylate quinine complex, titanium determination, sodium salicylate

ABSTRACT: An earlier study was made of the salicylate complexes of titanium and the ternary salicylate complexes of titanium with pyridine, quinine and pyramidon. (A.K. Babko and A.I. Volkova, D. AN URSR, 12, (1959 1336); Zh. Anal, kh. 5 (1960 587) Ternary complexes were used to determine titanium in steel. Continuing this work, the ternary complex being formed during the reaction of titanium-salicylate acid with quinine was studied. This complex differs in that it has greater stability and is more intensively colored than salicylate complexes of titanium with other organic bases (pyridine, pyramidon etc.). The method for determining 1/3

ACCESSION NR: AP4011979

titanium is based on the formation of a colored ternary titanium-salicylate-quinine complex, which is extracted in a wide pH interval from 2.5 to 4. In studying the relationship of titanium extraction to quinine concentration, solutions with a constant concentration of TiCl<sub>4</sub> 5.6 x 10<sup>-5</sup> mole/liter and / NaHSal / = 2xl0<sup>-2</sup> mole/liter were prepared. Overall quinine concentration in the aqueous phase was varied from 4 x 10<sup>-5</sup> to 5 x 10<sup>-4</sup> mole/liter. Maximum titanium extraction was observed starting with a quinine concentration of 2 x 10<sup>-4</sup> mole/liter. This indicates a high extraction factor of the ternary Ti complex because a one and one-half to twofold quinine surplus relative to Ti is adequate for a full extraction. Solutions containing 5.6 x 10<sup>-5</sup> mole/liter of TiCl<sub>4</sub> and 1.6 x 10<sup>-4</sup> mole/liter of quinine were prepared for studying the relationship of titanium extraction to salicylic acid concentration, and the salicylate concentration was varied from 2 x 10<sup>-4</sup> to 6 x 10<sup>-5</sup> mole/liter. The maximum extraction was observed with a thirty-fold sur-

Card 2/3

ACCESSION NR: AP4011979

plus of sodium salicylate. The extraction-photometric method was developed for determination of titanium in metallic aluminum. Sensitivity of the method is 1 x  $10^{-4}$ %. Orig. art. has: 4 figures, 2 tables.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN UkrSSR (Institute of general and inorganic chemistry, AN UkrSSR)

SUBMITTED: 20Mar63

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: CH, EL

NO REF SOV: 004

OTHER: 000

**Card** 3/3

VOIKOVA, A.I.; GET'MAN, T. Ye.

Extraction-photometric method of determining quinine as a ternary complex titanium-salicylate-quinine. Ukr. khim. zhur. 31 no. 12:1320-1322 \*65 (MIRA 19:1)

1. Institut obshchey i neorganicheskoy khimii Al UkrSSR. Submitted April 21, 1965.

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9. Monthly List of Russian Accessions, Library of Congress, \_\_\_\_\_1953, Unclassified.

GET'MAN, 7.P.

Surgical treatment of insufficiency of the conjunctival cavity in anophthalmia. Uch.zap. UEIGB 5:130-146 '62 (MIRA 16:11)

GETMAN, I	re.A.					
	Efficient forging F '59.	of rollers. (Forging)	Kuzshtan. p	oroizv.	1 no.2:38-39 (MIRA 12:10)	

MANAKIN, A.M., kand.tekhn.nauk; IVANOV, N.Kh., inzh.; GET'MAN,
Ye.A., inzh.

Using chemically solidifying mixtures. Konstr.i tekh.magh.
no.1:125-137 '61. (MIRA 15:2)

(Sand, Foundry---Additives)

LETYSHEV, S.E., insh.; VISIN, N.G., insh.; GRT'MAN, Yu.V., insh.

Some conclusions derived from the testing of VL23 electric locomotives. Elek. i tepl. tiaga 4 no. 12:11-12 D '60.

(MIRA 14:1)

(Electric locomotives--Testing)

GETTMAN, Ye.A., inzh.

Automating the process of preparing east iron with spheroidal graphite. Lit. proizw.no.9:11-13 S 165. (MEM 18:10)

GET'MAN, Yu.v., ingh.

Galculation of the heating of traction motors. Shor. trud.

DIIT no 39:152-155 \*63, (MIRA 18:4)

ORTMAN-SYCHEVA, N. M.: Doc Med Sci (diss) -- "Material on the use of natural nitrogen-radon waters for synecological treatment under sha conditions". "Omsk, 1958. 18 pp (Tomak State Med Inst), 500 copies (KI, No.1, 1953, 199)

5 024/6 (114/646 315/610 3124/837

15 2676

Koton, W. M., Corresponding Member, AS USCR, Assreyeve, 1. 7., AUTHORS:

and John monak, Tu. 1.

Entraion polymerization of a-mothyl correlain in the presence 11712:

of various redox systems

Akananga mauk SSSR. Dowledy, v. 1 2, m. 1, 194, 1091-198; PERIODICAL:

TEXE: Lemothyl corolain was polymerized in various rodex systems in the resence of a new type of emulsifler, aqueous polyacrolesh sulfite. This gields a stable emulsion, and polymerization takes place in the miscles of the emulsifier. Folymerization is carried out in ten times the anothe of water with a dition of twice the amount of a 2 % aqueous emploifier, wil related to the monomer used. The most suitable redex system for this corps is potassium persulfate and silver nitrate which gives high polymer yields of maximum molecular weight. All a-methyl-acrolein polymers obtained contain 65-70 / alsehydic groups, while for polyacrolein prepared in the same readx s, stems this figure is 20-70 %. This is due to the methylor of in the side chain of the a-methyl acrolein molecule, which provents to

Said 1/2

Emulsion polymerization of ...

|5/0.6/6./114/065/615/617 |B124/B154

cycling of the addition groups, which occurs in the israless release. The objects obtained are addited in partitine; their intrinsis viscosity in partitine ranges from 0.1% and 0.1%, and molecular weight, determined from the specification of progressive circuster and the intrinsis viscosity, which between 70,000 and 19%,000. The white powders obtained could be molded to 200°C and 7% at to light ye low plates with a postening point between 100°C and 11%°C. V. Ye. Eskin and S. I. Kienin are thanked if reasoning the viscosity, finding the diffusion coefficient, and for calculation the miscular weights of the polymers obtained. There are 2 tables. The English-language for rence is: E. Cilbert, J. Donleavy, J. Am. Corm. 8 ... 60, 1737 (1933).

ADSCCIATION: Institut vysokomolekulyarnykh soyedineniy Aktiemii nauk DDB

(In titute of High-molecular Compounds of the Academy of

Sciences U.SR)

SUBMITTED: Ma

March 25, 1962

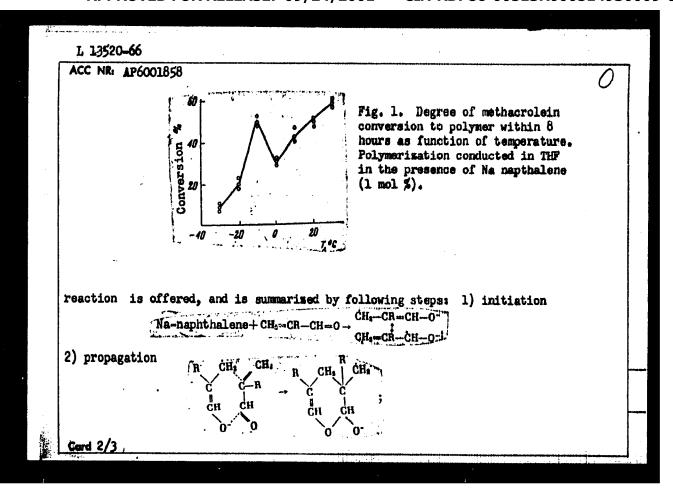
Card 2/2

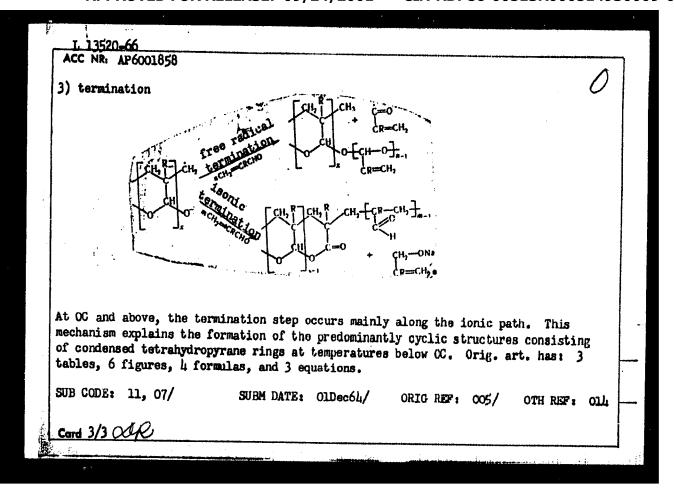
KOTON, M.M.; ANDREYEVA, I.V.; GETMANCHUK, Yu.P.

Polymerization of meta-acrolein with anion catalysts. Dokl. AN SSSR 155 no. 4:836-838 Ap '64. (MIRA 17:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SS. R. 2. Chlen-korrespondent AN SSSR (for Koton).

BAT(n)/BAP(j)/T SOURCE CODE: UR/0190/65/007/012/2039/2017 AUTHORS: Koton, M. M.; Andreyeva, I. V.; Getmanchuk, Yu. P.; Madorskaya, L. Is.; Pokrovskiy, Ye. I.; Kol'tsov, A. I.; Filatova, V. A. ORG: Institute of High-Molecular Polymers AN SSSR (Institut vysokomolekulyarnykn soyedineniy AN SSSR) TITLE: Structure of methacrolein polymers, obtained in the presence of anionic catalysts. 3rd report in the series Polymerization of Acrolein and Its Derivatives SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2039-2047 TOPIC TAGS: polymerization, polymer structure, reaction mechanism, catalyst/ Nippon Bunko infrared spectrophotometer DS 301, GNM 3 nuclear magnetic resonance spectrometer ABSTRACT: The structure of polymers obtained from methacrolein and ox -ethylacrolein in the presence of sodium naphthalene and sodium trityl using the method described by M. M. Koton, I. V. Andreyeva, and Yu. P. Getmanchuk (Dokl. AN SSSR, 155, 836, 1964) was investigated. The structure analysis was performed by chemical means: oxime formation, hydrogenation, oxidation with perbenzoic acid, ozonization, as well as by physical means: infrared spectra, using Nippon-Bunko spectrophotometer DS-301, and NMR spectra, using instrument GNM-3. It was established that the rate of conversion of methacrolein and the structure of the obtained polymer are both functions of the polymerization temperature, as illustrated in Fig. 1. Mechanism of the polymerization 678.01:53+678.744 UDC: Card 1/3





L 13082-66 EWT (m)/EWP(1)/T AP6002215 (A)SOURCE CODE: UR/0080/65/038/012/2740/2744 AUTHOR: Andreyeva, I. V.; Koton, M. H.; Getmanchuk, Yu. P.; Tarasova, M. G. ORG: Institute of High Holecular Compounds, AN SSSR (Institut vysokomolekulyarny soedinenly AN SSSR) TITLE: Emulsion polymerization of methacrolein SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 12, 1965, 2740-2744 TOPIC TAGS: emulsion polymerization, methacrolein, catalytic polymerization, high polymer, polymer, acrylic plastic ABSTRACT: Emulsion polymerization of methacrolein was studied in the presence of potassium persulfate and silver nitrate with a solution of polyacrolein bisulfite as a specific emulsifier. The object of the work was to develop a process for making a soluble polymer with high molecular weight containing reactive aldehyde groups. The optimum ratio of the monomer to water is 1:8 and the optimum polymerization temperature is 50° C. In all experiments the emulsifier content was constant (5 wt % based on the monomer). The amount of the initiator varied but the ratio of silver nitrate UDC: 1 678.744

#### L 13082-66

ACC NR: AP6002215

activator to potassium persulfate oxidative agent was 10:1. The oxygen content in the inert gas was  $0.05\cdot 10^{-2}$  to  $2\cdot 10^{-2}$  %. The characteristic viscosity of polyacrolein product increased with increasing depth of polymerization. Presence of aldehyde groups in the polymer product permits further processing into new types of plastic sheets or resin fibers. The dependence of polyacrolein characteristic viscosity upon polymerization duration is shown in Fig. 1. The effect of pH upon polymer characteristic viscosity  $\eta$  is shown in Fig. 2. It was found that the lower the oxygen and propionic aldehyde contaminant content, the higher was the polyacrolein molecular weight. Orig. art. has: 3 figures and 2 tables.

SUB CODE: 07,14/ SUBM DATE: 05Mov64/ ORIG REF: 004/ OTH REF: 002

Card 2/3

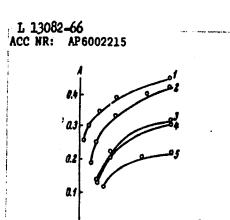


Fig. 1. Polyacrolein characteristic viscosity  $\eta$  as a function of polymerization duration. A - characteristic viscosity  $\eta$ ; B - is polymerization duration in hours: the ratio of  $K_2S_2O_8$  to  $AgNO_3$  in mole \$; 1 - 0.6:0.06; 2 - 0.6:0.06 (in presence of a buffer), 3 and 4 - 1.3:0.13; 5 - 2.6: 0.267.

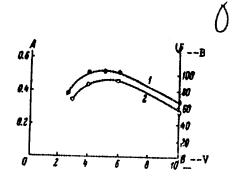


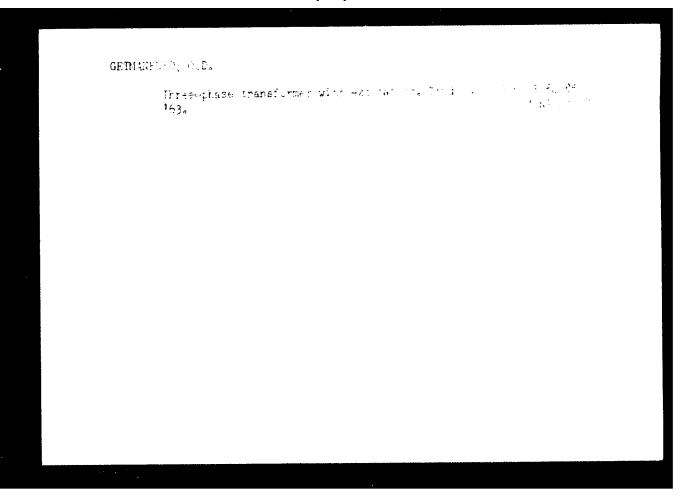
Fig. 2. The effect of solution pH on polyacrolein characteristic viscosity  $\eta$  and polymer yield for 6 hr polymerization and  $K_2S_2O_8$ : AgNO<sub>3</sub> ratio of 0.6:0.06 mole %.

A - n; B - percent conversion; Y - initial solution pH; 1 - polyacrolein yield in percent; 2 - polymer characteristic viscosity n.

BAMDAS, A.M., dektor tekto. mank; Shacard, J.T., konc. cosch. Most.

Gattalette, C.D., inzh.

Galoutation and determination of the optical designs of bian controlled transformers and autotransfer area. Truly 4.7 1P no.115-71 462.



\$/035/62/000/010/062/128 A001/A101

AUTHORS:

Getmanenko, T. V., Nikishkin, A. I.

TITLE:

Results of visual observations of meteors in the Crimea

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 66, abstract 10A466 (In collection: "Ionosfern. issled. (meteory), no. 8", M., AN 3SSR, 1962, 102 - 109, English summary)

Observations were carried out during 18 nights in August 1958 at the Crimean meteor station of VAGO. During the indicated period of time, a group of 5 - 9 observers recorded 4,200 meteors. The coefficient of attention and its variations were studied. The authors present the diagram of the number of Perseids and luminosity function for Perseids and background meteors, as well as the azimuth distribution of directions of sporadic meteors. There are 6 references.

Authors' summary

[Abstracter's note: Complete translation]

Card 1/1

KOMARK	OV.V.; GETMANENKO, V., starshiy master stantsii
	Noninflammable cleaning solutions. Pozh.delo 5 no.7:14 Jy 159. (MIRA 12:9)
	1. Nachal'nik Novosibirskoy pozharno-ispytatel'noy stantsii (for Komarkov)  (Cleaning co-pounds)

Chemical cleaning of smokehouse smokers. Pozh.delo 7 no.5:10
My '61. (MIRA 14:5)

(Novosibirsk--Smokehouses--Fires and fire prevention)

GETMANENKO, V. M.			
IKHNO, A.G., kand.tekhn.nauk.; GETMANENKO, V.M., insh.			
	Increasing the safety of mine electric equipment. Bezop.truda v oron. 2 no.3:6-7 Mr 158. (MIRA 11:3)		
	l. Makeyevskiy nauchno-issledovatel skiy institut no bezopasnosti rabot v gornoy nromyshlennosti. (Blectricity in mining)		

GETMANENKO-MAKSIMOV, Yu. L. Cand Biol Sci -- (diss) "Certain physiological changes connected with the reproductive functions of cows and depending on conditions of feeding." Mos, 1957. 11 pp (All-Union Sci Res Inst of Animal Husbandry) (KL, 43-57, 87)

-17-

L 38184-66 ACC NR: AP6013816

(N)

SOURCE CODE: UR/0066/65/000/006/0005/0008

AUTHOR: Kritskiy, Ye. D.; Slyusarenko, V. I.; Kuznetsov, D. A.; Getmanets, A. I.

ORG: none

TITLE: Klimat-4 ship air conditioner

SOURCE: Kholodil'naya tekhnika, no. 6, 1965, 5-8

TOPIC TAGS: air conditioning equipment, refrigeration equipment

ABSTRACT: The Klimat-4 air conditioner is designed for year-round operation on vessels not equipped with central air conditioning systems. It controls both temperature and relative humidity and can move 1500 m<sup>3</sup> of air an hour. The Klimat-4 consists of a cooling unit, air heater, humidifier, fan, and automatic regulator system; freon-22 is used as a coolant. A detailed breakdown of the technical parameters and a description of each component of the air conditioner are given. It is recommended for use on ships and in hospitals, kindergartens, cafes, and restaurants. Orig. art. has: 2 figures, 2 tables.

SUB CODE: 13/ SUBM DATE: none

UDC: 628.83 : 629.12

Card 1/1 vmb

VYCHECZHANIN, A. G., nauchnyy sotrudnik; SHEYNIN, B. Ya., nauchnyy sotrudnik; KARAMYSHEV, V. B., nauchnyy sotrudnik; GRYMANISTS.

I. Ya., nauchnyy sotrudnik; MANOYLENKO, S. M., vrach (Kharikov)

Influence of washing solutions and cooling and lubricating liquids on the skin of machine shop workers. Vrach. delo no.6: 124-126 Je 762. (MIRA 15:7)

(MACHINERY INDUSTRY WORKERS-DISEASES AND HYGIENE)
(SKIN.-DISEASES)

SHAPIRO, D.D.; GETMANETS, I.Ya.

Changes in the immunological structure of the body following the effect of cancerogenic chemical substances. Binl. eksp. biol. i med. 57 no. 2:93-97 F 164. (MIRA 17:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut gigiyeny truda i professional'nykh zabolevaniy (dir. - dotsent G.I. Yevtushenko), Khar'kov. Predstavlena deystvitel'nym chlenom AMN SSSR N.N.Zhukovym-Verezhnikovym.

GETMANETS, Nina Aleksandrovna, agr.; SELEZNEV, N.G., red.; FULIK, L.I., tekhn. red.

[Sowing ofcertified seeds assures high crop yields] Sortowye posevy -garantiia vysokogo urozheia. Tula, Tul'skoe knizhnoe izd-vo, 1960.

(MIRA 14:11)

(Field crops)

SHNEYDER, M.S., dotsent; KRASNOKUTSKAYA, T.P.; GETMANETS, R.A. (Donetsk)

Modification of the open oxygen method for determining the volume of residual air and the uniformity of pulmonary ventilation; the method of Darling, Cournand and Richards. Klin.med. no.4: 79-84 '62. (MIRA 15:5)

1. Iz kliniki propedevticheskoy terapii pediatricheskogo i sanitarno-gigiyenicheskogo fakul'tetov (zav. - prof. B.D. Borevskaya) Donetskogo meditsinskogo instituta (dir. - detsent A.M. Ganichkin). (RESPIRATION)

GETMANETS, V.N.

Sarcome of the pericardium. Vrach.delo no.6:647 Je '57. (MIRA 10:8)

1. Kafedra patologicheskoy anatomii Stalinskogo meditsinskogo inatituta

(PERICARDIUM--CANGER)

```
Case of actinomycosis with injury of the central nervous system.

Vrach.delo no.1:83-84 '60. (MIRA 13:6)

1. Kafedra patologicheskoy anatomii (zav. - dotsent Is.A. Dikshteyn) kafedra infektsionnykh bolezney (zav. - dotsent S.A. Verez) i kafedra nervaykh bolezney (zav. - prof. P.A. Miniovich) Stalinskogo meditsinskogo instituta.

(AGTINOMYCOSIS) (NERVOUS SYSTEM--DISEASES)
```

Clinical aspects and ingnosis of chronic dermatomyositis.

Vrach.delo no.5:529-53 My '58 (MERA 11:7)

1. Enfedra fakulitetskoy terapii (i.o.mav. - dotsent R.M. Ginzburg) i kafedra patologicheskoy anatomii (mav. - dots. Te.A. Dikshteyn)

Stalinskogo meditainskogo instituta.

(MUSCLES-DISMASES)

(SKIN-DISMASES)

SOV/130-59-1-11/21

AUTHORS: Kruskal', M.S., and Getmanets, V.V.

Operation of Continuous Furnaces for Continuous Mills TITLE:

(Rabota metodicheskikh pechey nepreryvnykh stanov)

PERIODICAL: Metallurg, 1959, Nr 1, pp 24-27 (USSR)

ABSTRACT: The authors discuss a 180-m2 hearth area, two-zone, recuperator type continuous furnace (Fig 1) designed by Stal proyekt, used for heating square 80 and 60 mm billets 11-12 m long for a continuous mill. The furnace is heated by 28 injection burners (Fig 2) and temperature in each zone is automatically controlled with the aid of a platinum/platinum-rhodium couple. A type EPP-120 ling potentiometer, an IR-130 regulator and a type A type EPP-120 control-IMT-6/120 actuator which adjusts the valve in the burner line are used. Pressure is controlled with a type RDM-35 regulator which adjusts the flue valve. Temperatures are measured at several points. The billets are pushed through with a 42-tonne pusher with a speed of 0.18 m/sec. The authors tabulate the main characteristics of these Card 1/2 furnaces and discuss their advantages and disadvantages. Among the defects was the construction of the charging end

Operation of Continuous Furnaces for Continuous Mills

Another improvement was the introduction of a compressed air injection tube into the burner which enabled the calorific value of the gas mixture to be increased to 1800 k cal/m<sup>3</sup>. The expected firing rate through ejection of hot air from the recuperators is 65 x 100 k cal/hour. The authors also suggest that the inclination of the furnace floor should be reduced from the designed value of 80 15; and that burner design should be modified to utilize higher calorific-value gas. There are 3 figures and 1 table.

ASSOCIATION: Zavod "Krivorozhstal' (Krivorozhstal' Works)

Card 2/2

\$/130/60/000/010/009/009/XX AOC6/AOC1

AUTHORS -

Khovrin, B. V , Getmanets, V. V.

TITLE:

Operation of Roller Accessories of Merchant Mills

PERIODICAL: Metallurg, 1960, No. 11, pp. 27-30

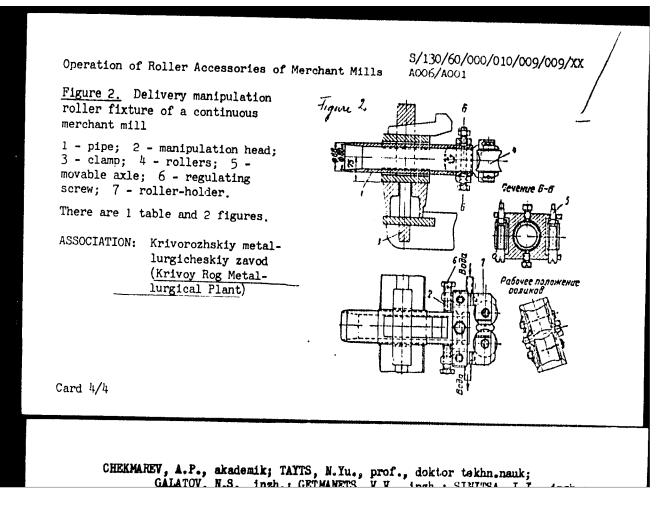
TEXT: High efficiency of high-speed merchant or wire rolling mills depends mainly on the satisfactory operation of roller accessories and their durability, A table is given where comparative characteristics of roller accessories of domestic and foreign mills are presented. From the merchant mills enumerated the high durability of roller fixtures of one British and one American mill is noted (10,000 and 8,000 tons respectively). The fixtures are made of expensive and scarce alloying elements or alloys. A practical solution of the problem is suggested by using fixtures with rollers made of ordinary steel or cast iron such as the inlet roller box shown in Figure 1 and the delivery manipulating roller fixture of a continuous merchant mills illustrated by Figure 2. The inlet roller box consists of two guiding rulers covered by top and bottom plates. The rulers are fixed to the box frame with bolts which are simultaneously their axles. Smooth rollers are mounted into the rulers to maintain the strips of rectilinear cross section. The rollers are made of CT 5 (ST 5) steel subjected Card 1/4

Operation of Roller Accessories of Merchant Mills

S/130/60/000/010/009/009/xx A006/A001

to subsequent quench-hardening; water-cooled textolite bearings are used. The gap between the rollers is regulated by bolts; plate-shaped springs mounted underneath the regulating bolts protect the fixtures against shocks from the rolled strip and ensure the pass of the front end of the rolled stock with slight defects. The durability of the described roller box is 7,000 t. The delivery manipulating roller fixture shown in Figure 2 is characterized by the removal of the metal from the rollers by an ordinary thick-walled ripe on whose tail the manipulation head with the rollers is mounted. The pipe with the head is fixed in a special clamp mounted on the delivery beam. The necessary angle of strip tilting is produced by turning the head. St.5 rollers are mounted on friction bearings. Their position in respect to the manipulation plane is regulated by the thread of the movable axle. The gap between the rollers is modified by screws. This makes it possible to use the box for rolling of a wide range of profiles. The manipulation head is easily exchangeable. The durability of the manipulation rollers is 12,000 tons. The use of these rollers prevents the sticking of metal to the operational surface and eliminates surface defects. The high durability and cheapness of the described fixtures made of ordinary steel or cast iron can be recommended for a wide use on rolling mills.

Card 2/4

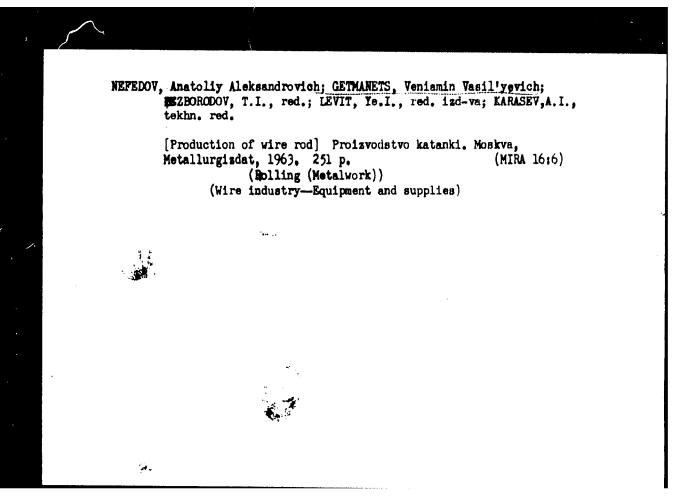


CHEKMAREV, A. P., akademik; OSTAPENKO, V. V., inzh.; BORISENKO, G. P., inzh.; GETMANETS, V. V., inzh.; LEVCHENKO, L. N., inzh.

Rolling of angle steel on a continuous mill. Nauch. trudy DMI no.48:79-93 62. (MIRA 15:10)

1. Akademiya nauk Ukrainskoy SSR (for Chekmarev).

(Rolling(Metalwork))



GETMANETS, V.V., inzh.; KOSTYUCHENKO, M.I., inzh.; SATSKIY, V.A., inzh.; SINITSA, I.I., inzh.

New method of selecting a rolling technology on continuous shape mills. Stal' 23 no.10:921-923 0 '63. (MIRA 16:11)

1. Krivorozhskiy metallurgicheskiy zavod.

TAYTS N.Yu.; GUBINSKIY, V.I.; GETMANRIS, V.V.

Temperature conditions of metal rolling on continuous small shape and wire rod mills. Izv. vys. ucheb. zav.; chern. met. no.72147-152 \*64. (MIRA 17:8)

1. Depropetrovskiy metallurgicheskiy institut.

GETMANETS, V.V.; ZHUEBA, S.P.

Improvement of roll bearings. Metallurg 9 no.4:37-38 Ap '64.
(MIKA 17:9)

1. Krivorozhskiy metallurgicheskiy zavod.

CETMANETS, V.V.; BROYDT, A.S.

Effect of the characteristics of an electric drive on the technology of rolling on continuous light section mills. Met. i gornorud. prom. no.3:34-36 My-Je '65.

(MIRA 18:11)

GETMANETS, V.V.; TSYBANEV, Ye.G.; SHERRASSIT, A.T.

Greeving the rolls of the roughing stani of continuous dire tog mills. Metallurg 10 no.10:26-28 0 %.5. (9154-18:10)

1. Krivorozhskiy metallurgi meskiy rav d.

GETMANETS, Veniumin Vasil'yevich; SATSKIY, Vitally Antonevich, Al'MEN, losif Abramovich; SHAFIRO, Mikhail Kirchevich (Operation of continuous small-section mills) Eksplachtasiia nepreryvnykh melkosortnykh stanov. Moskva, Metallurgiia, 1965. 142 p. (NIBA 18:13)

KOLGANOV, G.S.; PAVLENKO, I.I.; GETMANETS, Zh.S.; CHERNEGA, I.L.; SKOEKIN, N.F.

Using trays with ceramic inserts for the top pouring of steel.

Stal' 23 no.6:515-516 Je '63. (MIRA 16:10)

1. Krivorozhskiy metallurgicheskiy zavod.

GETMANOV A.A.

PHASE I BOOK EXPLOITATION

SOV/427)

Avtomaticheskoye upravleniye i vychislitel'naya tekhnika, vyp. 3 (Automatic Control and Computer Techniques, No. 3) Moscow, Mashgiz, 1900. 489 p. Errata slip inserted. 7,000 copies printed.

Ed. of Publishing House: G.F. Polyakov; Tech. Ed.: T.F. Sokolova; Managing Ed. for Literature on Machine Building and Instrument Making (Mashgir): N.V. Pokrovskiy, Engineer; Editorial Board: V.V. Solodovnikov, Doctor of Technical Sciences, Professor (Chairman), N.N. Bogolyubov, Academician, A.Yu. Thlinskiy, Academician, Ukrainian SSR, V.V. Kazakevich, Doctor of Technical Sciences, Professor (Deputy Chairman), A.A. Lyapunov, Doctor of Physics and Mathematics, Professor, B.N. Petrov, Corresponding Member, Academy of Sciences USSR, Ye.P. Popov, Doctor of Technical Sciences, Professor, G.S. Pospelov, Doctor of Technical Sciences, Professor, B.A. Ryabov, Doctor of Technical Sciences, Professor, B.V. Anisimov, Candidate of Technical Sciences, Docent, V.N. Plotnikov, Candidate of Technical Sciences, Docent (Scientific Secretary), V.B. Ushakov, Doctor of Technical Sciences.

PURPOSE: This book is intended for scientific workers, engineers, and aspirants working in the field of automatic control.

Card 1/4

Automatic Control (Cont.)

S07/427:

COVERAGE: The book is the third collection of reports read at the seminar on automatic control and computer engineering of the NTO priberestr yearya (Scientific and Technical Society for Instrument Making), the MVTU am-Baumana (Moscow Higher Technical School imeni Bauman), and the MAI .m Ordzhonikidze (Moscow "Order of Lenin" Aviation Institute imeni Ordzhonikida) It contains papers on current topics in automatic control and computer engineering which, according to the author, are significant for the solution of problems involved in the complex automation of industrial processes by means of control machines and includes discussion of the design of linear and nonlinear automatic control systems. The book covers some questions related to the dynamics of such systems, ways of increasing operational speed, and means of obtaining optimum transient processes. Automatic control systems involving discrete computers, systems with variable parameters, sampled-data antrol systems, the dynamic accuracy of these systems during random motions, and the theory of sampled-data systems are discussed. No personalities are mentioned. References are found at the end of each article.

Card 2/4

Adrumatic Coatrol (Cont.)	3CV/4271
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Ostr vokiy G.M. On a Method of Improving the Quality of a Control System ov Means of Nonlinear and Computer Devices	
Paville, A.A., V.P. Poputsillo. Design of Simple Optimal Relay Systems of the Second Order	4:
Systems With Compressors and the Suppression of Self-Oscillations by Means of Feedbalks	- <b>•</b> '
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\$\frac{\infty 7973}{\infty 61/000/004/005/052} \text{D249/D302}

AUTHOR:

Getmanov, A.G.

TITLE:

The dynamical pecularities of performing some linear

operations on a digital computer

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika. no. 4, 1961, 4, abstract 4 B23 (V sb. Avtomat. upr. i vychisl. tekhn. no. 3, M., Mashgiz, 1960, 188-217)

TEXT: The application of digital computers to systems with continuous automatic control is considered. Some topics regarding the operation of computers, when realizing a certain linear operator are dealt with: 1) the conditions under which a digital computer can be considered as a continuous element of a control system are discussed, and 2) it is shown that a digital computer can perform only approximate operations of differentiation and integration. The degree of approximation depends on the method of solution, the form of the linear operation and the speed of operation from the point of view

Card 1/2

27973 S/194/61/000/004/005/052 D249/D302

The dynamical peculiarities...

of the theory of automatic control. the accuracy of approximation is determined by the frequency characteristics of the applied numerical methods of the approximate solution. A sufficiently adequate approximation of the frequency characteristics of the realising operator frequency characteristics is indicated and illustrated on examples of some simpler automatic control system sections 14 figures. 9 references. Abstracter's note: Complete translation

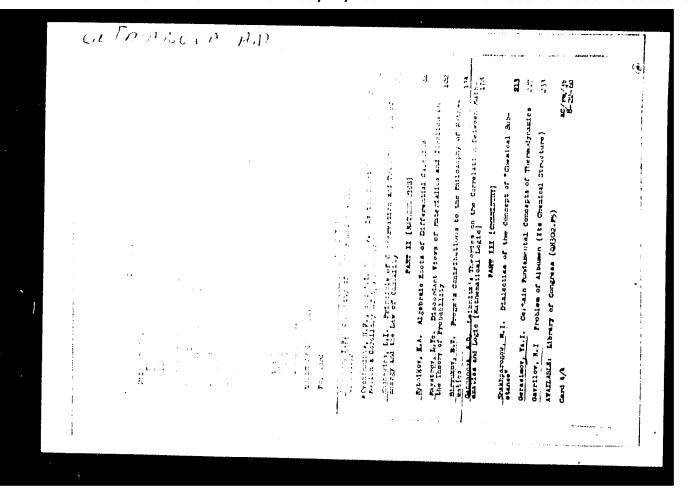
Card 2/2

AUTHOR: Getmanov, A. G.; Igoshin, A.	P	3 4
FITLE: On the frequency analysis of the sligital computer in an analog-digital simu	structures of linear functionals realizable by a lation system	B
SOURCE: Ref. zh. Kibernetika, Abs. 3G3	16C BH	
REF SOURCE: Sb. Analog. i analogo-tsif	rovaya vychisl. tekhn. M., Mashinostroyeniye,	
POPIC TAGS: computer simulation, computer matter analysis	outer program, linear functional operator,	
quivalent system of difference levels. Tw	metional with a constant coefficient by means of ser program is compiled in accordance with the coefficient problems are formulated; selection of the of the step of solution assuring the desired accordance of abstract	
UB CODE: 12, 09/	,	
ard 1/1 egb	UDC: 62-506:681.142:62	

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CETMANOV, R., inzh.-instruktor

Traffic signs and the training and practice of drivers. Za rul.
20 no.3:24-25 Mr *62. (MIRA 15:3)

(Traffic signs and signals) (Automobile drivers)
```



# Calculation of the coefficient of kinematic viscosity of champagne. Vin.SSSR 15 no.3:24-25 '55. (MIRA 8:8) 1. Moskovskiy energeticheskiy institut imeni V.M.Molotova. (Champagne (Wine))

GETMANOV, R.; LEVINSON, M.

For unified methods and means of traffic regulation, Avt. transp.
32 no.10:31 0 154. (MERA 7:12)

(Traffic regulations)

GETLANOV, R.; GOL'DENBERG, E.; PAVLOV, A.; YUMASHEV, N.B., spetc. red.; MIKHAYLOV, n.I., red.

[Collection of problems on traffic regulations for automotive transportation] Sbornik zadach po pravidan dvizhenia avtotransporta. Moskva, Izd-vo [ 120]. 1965. 351 p. (MIRA 247)

CHIRKIN, V.V., kand. tekhn. mauk; GMTMANOV, R.Ya., insh.

Serious shortcomings in an important document. Gor. khoz. Mosk. 32 no.7:42-43 Jl \*58. (MIRA 11:6)

1. Instruktor shkoly avtolyubiteley Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu (for Getmanov).

(Moscow--Traffic regulations)

- 1. GETMANCY, Ya. Ya.
- 2. USSR (600)
- 4. Meadows-Komi A.S.S.R.
- 7. Sown meadows in arctic collective farms of the Komi A.S.S.R. Korm. baza. 3, No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

USSR/Biology GATMANOV, YA YA.

FD - 1579

Card 1/1

: Pub. 42-11/11

Author

: Getmanov, Ya. Ya. and Kuznetsova, L. G.

Title

: On the question of the biology of sphagnums

Periodical

: Izv. AN SSSR. Ser. biol. 5, 135-144, Sep-Oct 1954

Abstract

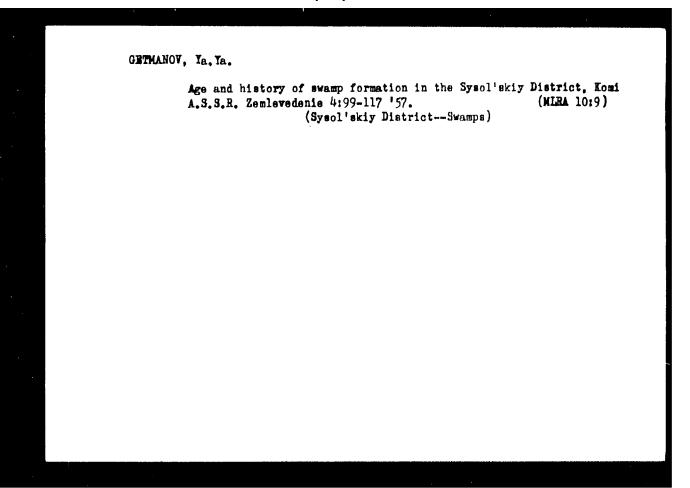
: Studied the effect of separate chemical factors on growth and coloration of sphagnums. Sphagnums used in the experiment were S. fuscum, S. medium, and S. recurvum. Organic and inorganic solutions were used as culture media, as follows: Organic: cane sugar, levulose, lactose, lactic acid, and acetic acid in various concentrations. Inorganic: a mixture of mineral salts (NaNO2, NaH2 PO4, KC1, CaSO4) in distilled water, also four solutions of the same mixture without N, K, P, and Ca, and in addition a solution of CaSO, in distilled water. Tables.

Seven references: 6 USSR (all prior to 1940)

Institution : Komi Affiliate of the Academy of Sciences of the USSR, town Syktyvkar

Submitted

: January 28, 1954



KUDACHKOV, I.A., kandidat tekhnicheskikh nauk: GETWANSKAYA, M.V., inshener.

Improving sanitation conditions in foundries. Lit.proixv. no.5:
30 My '56. (MGRA 9:8)

(Foundries) (Industrial hygiene)

KHUDOYAN, T.S.; SHAROV, A.; CHIRKOV, I. (Stalinsk, Kemerovskaya oblast');
KHAUSTOV, S. (g.Novoshakhtinsk); ARKHIPOV, V., avtomatchik;
SHEVCHENKO, B.; GETMANSKAYA, Ye.; SUMTSOV, I.; KURDYUKOVA, L.,
doyarka (; BABIY, V. (Chernovitskaya oblasti'); MAKAROV, N.;
SOKOLOV, K.; SINITSKIY, N.

Letters to the editor. Sov. profsoiuzy 17 no. 5:35-39 Mr 161. (MIRA 14:2)

1. Zaveduyushchiy otdelom truda i zarplaty respublikanskogo sovirofa Armenii (for Khudoyan). 2. Staleprokatnyy zavod, Leningrad(for Arkhipov). 3. Predsedatel pravleniya kluba sovkhoza "Krasnyy Oktyabr'," Voronezhskoy oblasti (for Shevchenko).
4. Chleny pravleniya kluba sovkhoza "Krasnyy Oktyabr'," Voronezhskoy oblasti (for Getmanskaya, Sumtsov). 5. Sovkhoz "Krasnyy Oktyabr'," Voronezhskoy oblasti (for Kurdyukova). 6. Predsedatel tsekhkoma kotel no-svarochnogo tseka Vol'skogo zavoda "Metallist" (for Makarov). 7. Predsedatel postroykoma Stroitel nogo uchastka No. 2, g.Gagra, Gruzinskaya SSR (for Sinitskiy).

(Trade unions) (State farms)

MAN' KOVSKAYA, N.K., kand.khimicheskikh nauk; GETMAN.KAYA, Z.I., inzh.

Methods of determining the isoacids content of commercial fractions of C10-C16 and C17-C20 fatty acids. Masl. zhir.pron. 28 no.3:29 Mr 162. (MIRA 15:4)

1. Nauchno-issledovatel'skiy institut sinteticheskikh zhirozameniteley i moyushchikh sredstv.

(Acids, Fatty--Analysis)

MAN'KOVSKAYA, N.K., kand.khim.nauk; GETMANSKAYA, Z.I., inzh.

Decomposition of the salts of synthetic fatty acids with carbonic acid, Masl.-zhir.prom. 29 no.2:18-21 F '63. (HIRA 16:4)

1. VNIISINZh. (Carbon dioxide)

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	V - actions only reffin extration products. The first of $t=0.60$ and $t=0.1942$			
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The role of arterial angiomas and aneuryens of cerebral substance in the etiology of subarachnoid hemorrhage. Sov.med. 20 no.11:6-6 H '56. (MLRA 10:1)

1. Iz patologoanatomicheskogo i nervnogo otdeleniy 4-y gorodskoy bol'nitay Moskvy (glavnyy vrach - zesluzhennyy vrach ESFSR M.V. Ivanyukov, nauchnyye rukovoditeli - prof. Ya.L.Rapoport, prof. Z.L. Lur'ye).

(ANGIOMA, compl.
brain, causing subarachnoid hemorrh.)

(FISTULA, ARTERIOVENOUS, compl.
eame)

(SUBARACHOID HEMORRHAGE, etiol. and nathogen.
angioma & arteriovenous fistula in brain)
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GETMANSKATA, Z.M.; SEMENOVA, R.A.; SOKOLOVA, G.H.

Cortisone and ACTH therapy in periarteritis nodosa, Sov.med. 20 no.11;

44-47 N '56.

(MIRA 10:1)

1. Iz nervnogo otdeleniys 4-y gorodskoy klinicheskoy bol'nitsy
(glavnyy vrach - zaslushennyy vrach RSFSR M.V.Ivanyukov, nauchnyy
rukovoditel' - prof. Z.L. Lur'ye) Moskvy.

(PERIARTERITIS NODOSA, ther.

ACTH & cortisone)

(ACTH, ther. use
 periarteritis nodosa, with cortisone)

(CORTISONE, ther. use
 periarteritis nodosa, with ACTH)

LUR'YE, Z. L.; GETMANSKAYA, Z. M.; YAVCHUNOVSKAYA, M. A.

Hemorrhages into the brain; anatomical, topical and etiological diagnosis. Nauch. trudy Inst. nevr. AMN SSSR no.1:62-70 160. (MIRA 14:7)

(BRAIN-\_HEMORRHAGE)

GETMANSKATA, Z.M.; OL'KHOVSKATA, I.G.

Multiple aneurysms of the vessels of the basal portion of the train. Vop.neirokhir. 24 no.1:36-37 Ja-F '60. (MIRA 13:10) (INTRACRANIAL ANEURYSMS)

Tolorument, N.M.; ablib, i.T.; Gerrender, A...

Investigating the distribution of plassic defarmation by the photoplasticity method, fav. vya. uchec. rav.; chern. mct. 8 nc.5:76-81 '65. (FIEW 19:6')

1. Eramatorskiy industrial myy inetit. t.

GETMANSELY, 0.1., nachal'nik loksetivnoy slushby zavoda (g.Vyksa); IALTAYEV,

G.K., brigadir po rementu (g.Vyksa)

The performance of the TUZ diesel locometive has improved. Elek.

i tepl. tiaga 4 no.10127-28 0 '60. (MIR1 13:10)

(Diesel locomotives)

salts of all	Using the p-toluidine method for determining the content of sodium salts of alkyl sulfates in synthetic detergents. Maslzhir. prom. 25 no.7:29-31 '59. (MIRA 12:12)  1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov. (Cleaning compounds)		

GETMANSKIY, I.K.; NEVOLIN, F.V., kand.tekhn.nauk

Refining of alkyl sulfates of synthetic secondary alcohols. Masl-zhir.prom. 26 no.5:18-20 My '60. (MIRA 13:12)

1. Nauchno-issledovatel'skiy institut sinteticheskikh zhirozameniteley i moyushchikh sredstv (for Getmanskiy). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for Nevolin). (Alcohols) (Sulfuric acid)

GETMANSKIY, I.K., inzh.; LESHCHENKO, Zh.Ya.

Some properties of alkyl sulfates of synthetic alcohols and their solutions. Masl.-zhir.prom. 26 no.7:24-26 Jl '60.

(MIRA 13:7)

1. KIISZh i MS.

(Cleaning compounds) (Sulfuric acid) (Alcohols)